

FIG. 1

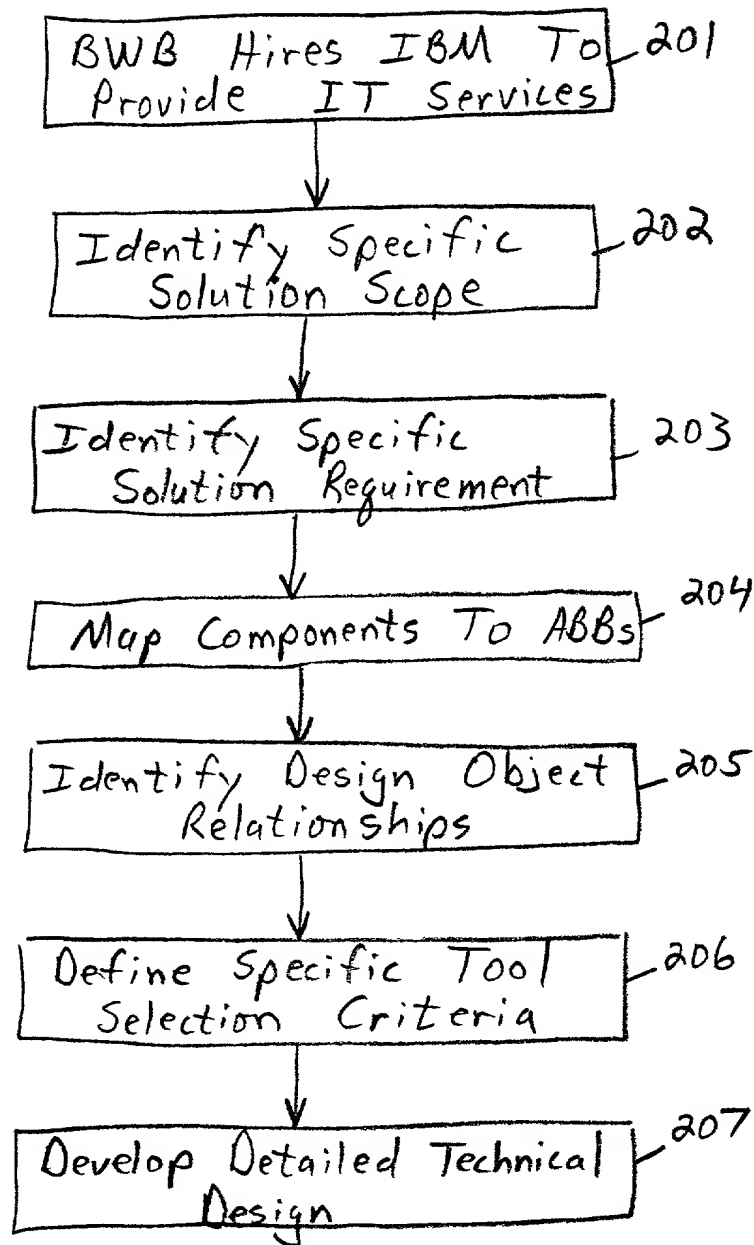


FIG. 2

1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749

The ESD Technical Architecture

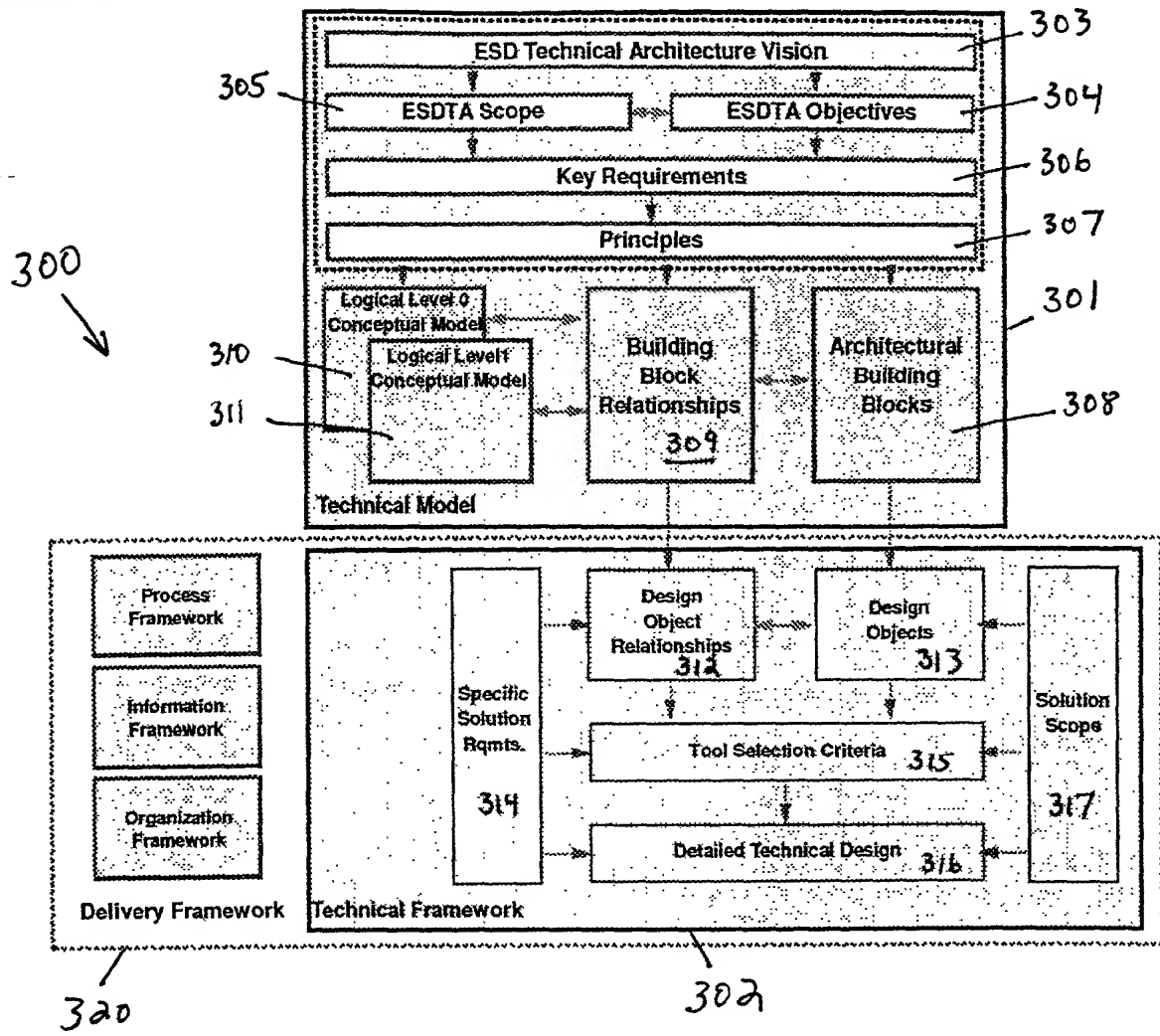


FIG. 3

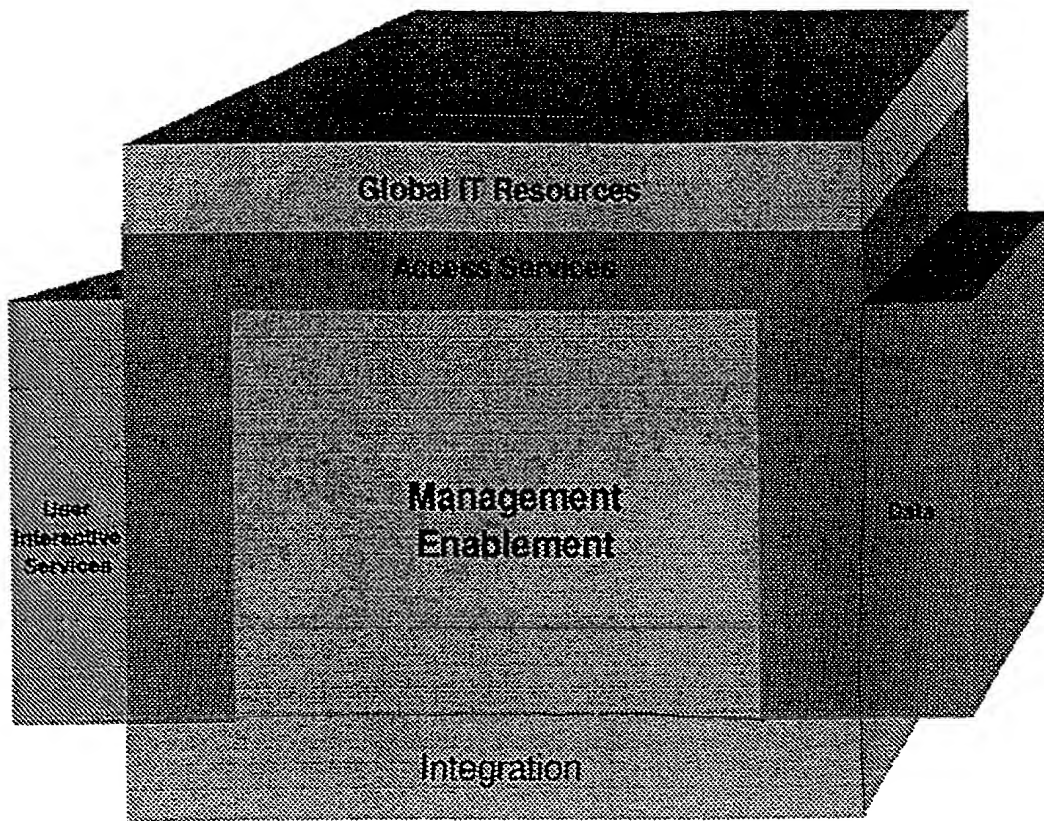


FIG. 4

ABB0: ME Management Enablement

- ABB1: ME-1 Analyze

- ABB2: ME-1-1 Business Systems Modeling
- ABB2: ME-1-2 Forecasting
- ABB2: ME-1-4 Verifying
 - ABB3: ME-1-4-1 Check Status
 - ABB3 : ME-1-4-2 Check Progress
- ABB2: ME-1-5 Correlating
- etc.

- ABB1: ME-2 Control

- ABB2: ME-2-1 Add
 - ABB2: ME-2-2 Remove
 - etc.
- etc.

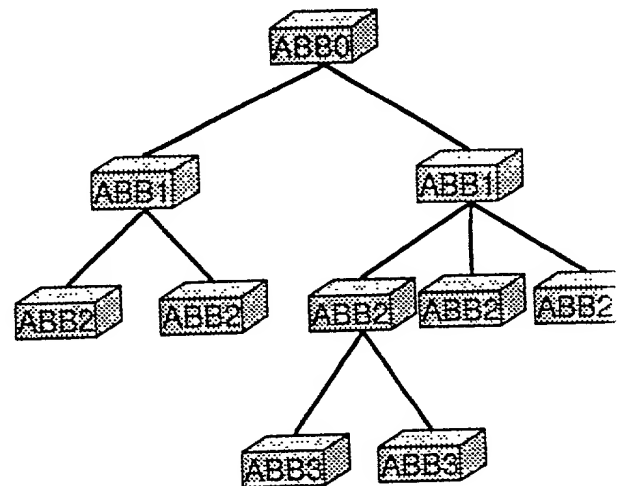


FIG. 5

From ABB	To ABB	Function	ABB1 N
UI-2	ME-1	To provide authentication	
UI-2	ME-1	To provide subscription	
UI-2	ME-1	To provide scheduling	
UI-2	ME-1	To perform an analysis request	
UI-3	ME-3	To provide the information needed to be rendered	
ME-1	ME-2	Perform action on an IT resource	Analyze
ME-1	ME-3	Communicate to a resource (people or IT resources)	
ME-1	ME-4	Synchronize activities	
ME-1	AS-2	For the transportation of information	
ME-1	DT-1	Receive and store data	
ME-1	IN-1	Perform any integration necessary between mgmt enablement	
ME-1	RS-0	Receive information from IT resources	
ME-1	UI-2	Receive request to analyze	

FIG. 6

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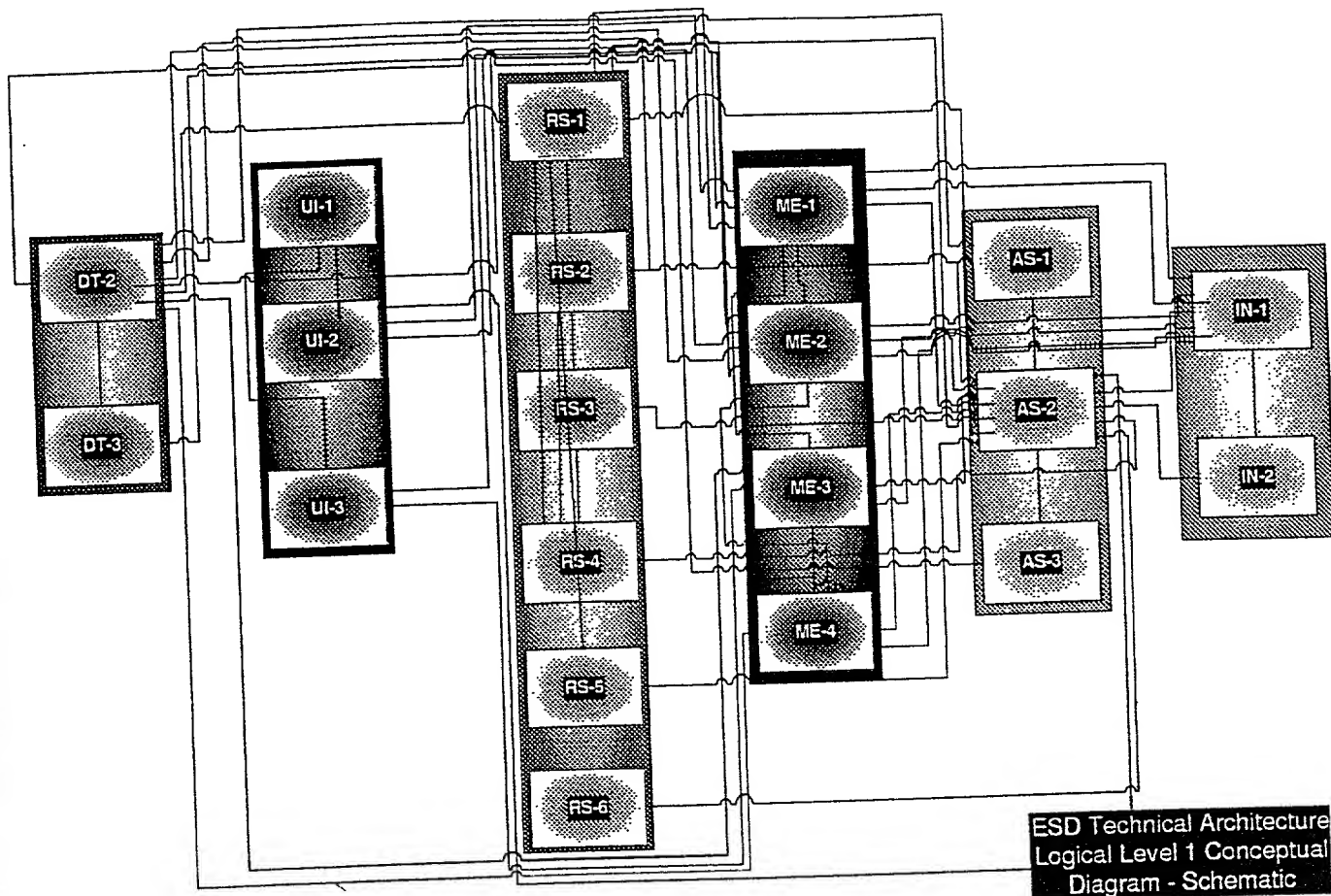


FIG. 7

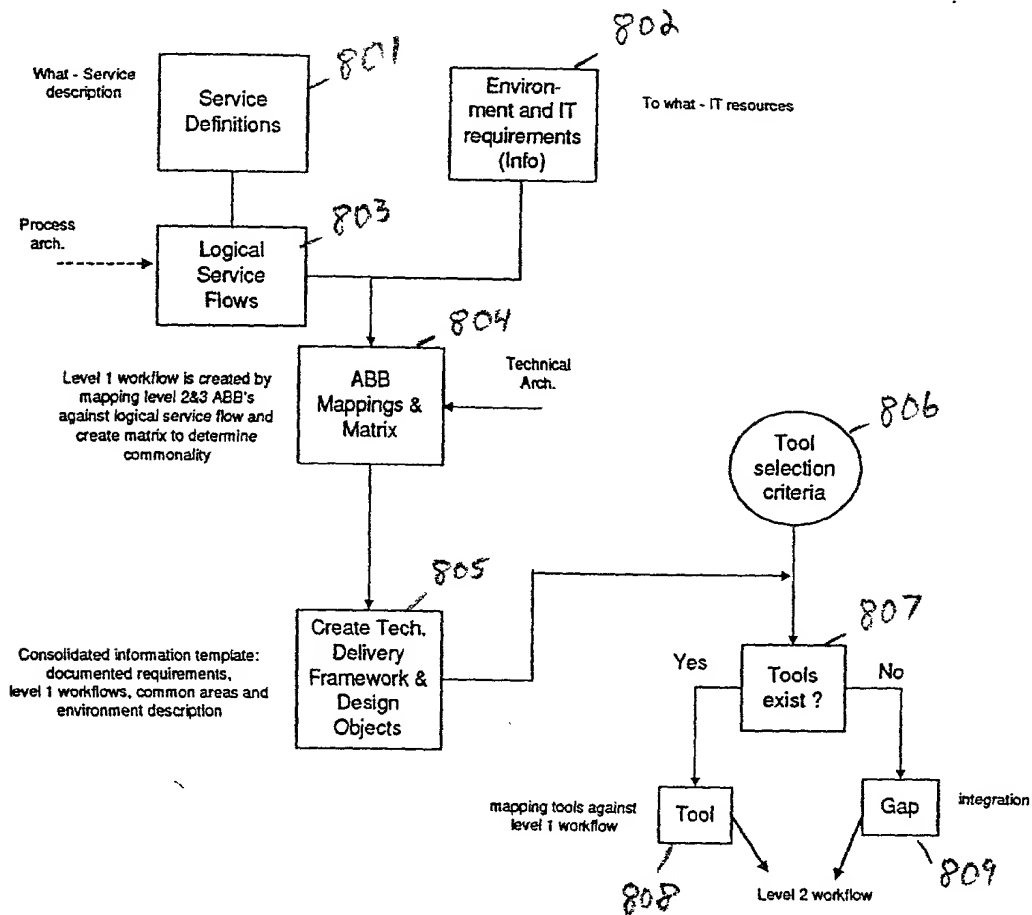


FIG. 8

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Identifier	Location	Type	O/S	Software	Components
ME0001	New York	Mainframe	MVS	GICS	N/A
DASD001	New York	Data Store	N/A	N/A	2K TB Disk
SERV001	London	LAN Serv	Win NT	SAP	CPU, Disk
SERV002	Portsmouth	LAN Serv	Win NT	SAP	CPU, Disk
SERV003	Chicago	LAN Serv	Win NT	Novell	CPU, Disk
SERVxxx	Vancouver	Print Serv	Win NT	N/A	CPU, Disk
WS001	New York	Workstation	Win 95	MS Office	CPU, Disk
WS002	New York	Workstation	Win 95	MS Office	CPU, Disk
WS003	New York	Workstation	Linux	Netview	CPU, Disk
WSxxx	Vancouver	Workstation	Win 2000	MS Office	CPU, Disk
HUB001	New York	Hub	N/A	N/A	N/A
HUBxxx	Vancouver	Hub	N/A	N/A	N/A
ROUT001	New York	Router	N/A	N/A	N/A
ROUTxxx	Vancouver	Router	N/A	N/A	N/A

FIG. 9

11533 11534 11535 11536 11537 11538 11539 11540 11541 11542 11543 11544 11545 11546 11547 11548 11549 11550 11551 11552 11553 11554 11555 11556 11557 11558 11559 11560 11561 11562 11563 11564 11565 11566 11567 11568 11569 11570 11571 11572 11573 11574 11575 11576 11577 11578 11579 11580 11581 11582 11583 11584 11585 11586 11587 11588 11589 11590 11591 11592 11593 11594 11595 11596 11597 11598 11599 11600 11601 11602 11603 11604 11605 11606 11607 11608 11609 11610 11611 11612 11613 11614 11615 11616 11617 11618 11619 11620 11621 11622 11623 11624 11625 11626 11627 11628 11629 11630 11631 11632 11633 11634 11635 11636 11637 11638 11639 11640 11641 11642 11643 11644 11645 11646 11647 11648 11649 11650 11651 11652 11653 11654 11655 11656 11657 11658 11659 11660 11661 11662 11663 11664 11665 11666 11667 11668 11669 11670 11671 11672 11673 11674 11675 11676 11677 11678 11679 11680 11681 11682 11683 11684 11685 11686 11687 11688 11689 11690 11691 11692 11693 11694 11695 11696 11697 11698 11699 11700 11701 11702 11703 11704 11705 11706 11707 11708 11709 11710 11711 11712 11713 11714 11715 11716 11717 11718 11719 11720 11721 11722 11723 11724 11725 11726 11727 11728 11729 11730 11731 11732 11733 11734 11735 11736 11737 11738 11739 11740 11741 11742 11743 11744 11745 11746 11747 11748 11749 11750 11751 11752 11753 11754 11755 11756 11757 11758 11759 11760 11761 11762 11763 11764 11765 11766 11767 11768 11769 11770 11771 11772 11773 11774 11775 11776 11777 11778 11779 11780 11781 11782 11783 11784 11785 11786 11787 11788 11789 11790 11791 11792 11793 11794 11795 11796 11797 11798 11799 11800 11801 11802 11803 11804 11805 11806 11807 11808 11809 11810 11811 11812 11813 11814 11815 11816 11817 11818 11819 11820 11821 11822 11823 11824 11825 11826 11827 11828 11829 11830 11831 11832 11833 11834 11835 11836 11837 11838 11839 11840 11841 11842 11843 11844 11845 11846 11847 11848 11849 11850 11851 11852 11853 11854 11855 11856 11857 11858 11859 11860 11861 11862 11863 11864 11865 11866 11867 11868 11869 11870 11871 11872 11873 11874 11875 11876 11877 11878 11879 11880 11881 11882 11883 11884 11885 11886 11887 11888 11889 11890 11891 11892 11893 11894 11895 11896 11897 11898 11899 11900 11901 11902 11903 11904 11905 11906 11907 11908 11909 11910 11911 11912 11913 11914 11915 11916 11917 11918 11919 11920 11921 11922 11923 11924 11925 11926 11927 11928 11929 11930 11931 11932 11933 11934 11935 11936 11937 11938 11939 11940 11941 11942 11943 11944 11945 11946 11947 11948 11949 11950 11951 11952 11953 11954 11955 11956 11957 11958 11959 11960 11961 11962 11963 11964 11965 11966 11967 11968 11969 11970 11971 11972 11973 11974 11975 11976 11977 11978 11979 11980 11981 11982 11983 11984 11985 11986 11987 11988 11989 11990 11991 11992 11993 11994 11995 11996 11997 11998 11999 12000

ABB	Type	O/S	Software	Components
RS1-F1	Router	N/A	N/A	N/A
RS1-F2	Hub	N/A	N/A	N/A
RS1-F3	LAN Serv	Win NT	SAP	CPU, Disk
RS1-F4	Print Serv	Win NT	N/A	CPU, Disk
RS2-Z20	Mainframe	MVS	CICS	N/A
RS2-Z21	Data Store	N/A	N/A	2K-TB Disk
RS3-F9	Workstation	Win 2000	MS Office	CPU, Disk
RS3-F10	Workstation	Win 95	MS Office	CPU, Disk
RS3-F11	Workstation	Linux	Netview	CPU, Disk
RSx-Sx	Workstation	Win 3.1	WP5.1	CPU, Disk

FIG. 10

Identifier	ABB
ME0001	RS2-2-20
DASD001	RS2-2-21
SERV001	RS1-1-3
SERV002	RS1-1-3
SERV003	RS1-1-5
SERV0xx	RS1-1-4
WS001	RS3-1-10
WS002	RS3-1-10
WS003	RS3-1-11
WS0xx	RS3-1-9
HUB001	RS1-1-2
HUB0xx	RS1-1-2
ROUT001	RS1-1-1
ROUT0xx	RS1-1-1

FIG. 11

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Identifier	ABB	Physical Relationship
ME0001	RS2-2-20	To HUB001
DASD001	RS2-2-21	To ME001
SERV001	RS1-1-3	To HUB001
SERV002	RS1-1-3	To HUB010
SERV003	RS1-1-5	To HUB030
SERVxxx	RS1-1-4	To HUBxxx
WS001	RS3-1-10	To HUB009
WS002	RS3-1-10	To HUB015
WS003	RS3-1-11	To HUB075
WSxxx	RS3-1-9	To HUBxxx
HUB001	RS1-1-2	To ROUT001
HUBxxx	RS1-1-2	To ROUTxxx
ROUT001	RS1-1-1	To ROUTxxx
ROUTxxx	RS1-1-1	To ROUT001

FIG. 12

Identifier	ABB	Physical Relationship	ABBs for Event Mgmt	ABBs for Problem Mgmt	ABBs Relationships
ME0001	RS2-2-20	To HUB001	List A	List B	Relate A
DASD001	RS2-2-21	To ME001	List C	List D	Relate B
SERV001	RS1-1-3	To HUB001	List E	List F	Relate C
SERV002	RS1-1-3	To HUB010	List E	List F	Relate C
SERV003	RS1-1-5	To HUB030	List G	List H	Relate D
SERVxxx	RS1-1-4	To HUBxxx	List I	List J	Relate E
WS001	RS3-1-10	To HUB009	List K	List L	Relate F
WS002	RS3-1-10	To HUB015	List K	List L	Relate F
WS003	RS3-1-11	To HUB075	List M	List N	Relate G
WSxxx	RS3-1-9	To HUBxxx	List O	List P	Relate H
HUB001	RS1-1-2	To ROUT001	List Q	List R	Relate H
HUBxxx	RS1-1-2	To ROUTxxx	List Q	List R	Relate H
ROUT001	RS1-1-1	To ROUTxxx	List S	List T	Relate I
ROUTxxx	RS1-1-1	To ROUT001	List S	List T	Relate I

FIG. 13

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▪ List A

- Event Mgmt for RS2-2-20
- Requires:
 - UI2-2-25 => Console S/W
 - AS1-2-3 => Security S/W
 - DT2-2-45 => System Logs
 - IN0-10-11 => Scripts
 - ME1-1-2 => Mgmt Agent
 - ME1-3-3 => Monitor Agent
 - RS25-10-4 => Mgmt Server

▪ Relate A

- Describes how ABBs need to be integrated for Event Mgmt
- UI2-2-25 <=> RS25-10-4
- UI2-2-25 <=> AS1-2-3
- DT2-2-45 => IN0-10-11
- ME1-1-2 => DT2-2-45
- ME1-3-3 => DT2-2-45
- DT2-2-45 => RS25-10-4
- etc.

UI = User Interface	AS = Access Services	IN = Integration
DT = Data	ME = Management Enablement	RS = Global IT Resources

FIG. 14

ABB	US2-2-25	AS1-2-3	ME1-1-2	RS25-10-4
RS2-2-20	Required	Required	Required	Required
RS2-2-21	Required		Required	Required
RS1-1-2		Required		Required
RS1-1-3			Required	
RS1-1-5	Required		Required	
RS1-1-4	Required	Required		
RS1-1-10		Required		Required
RS3-1-10			Required	
RS3-1-11	Required		Required	

Design Object 1

RS2-2-20 + RS2-2-21 + RS1-1-2 + RS25-10-4

Design Object 2

RS1-1-4 + US2-2-25 + AS1-2-3

...Design Object x

ME1-1-2 working on RS2-2-20 and RS2-2-21

FIG. 15

"Design Object" 1 is

- RS2-2-20 => Mainframe
- RS2-2-21 => Data Store
- RS1-1-2 => Hub
- RS25-10-4 => Management Server

We Know How These All Relate

- Physical and ABB Model Relationships

We Know Attributes such as O/S, S/W, etc.

We Identify Specific Requirements/Criteria

- Management server running on MVS
- Manages Data Stores and Hubs
- etc.

Available Tools

Netview Server
Computer Associates Unicenter
... Product XYZ

Compare Tools
To Requirements

Select Netview Server to Satisfy
"Design Object 1" Requirements

FIG. 16

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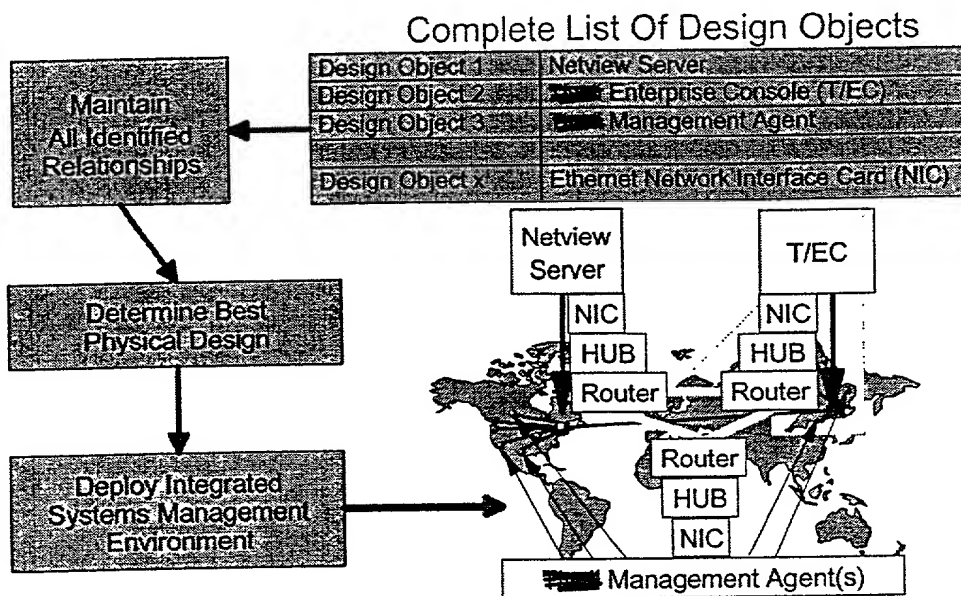


FIG. 17

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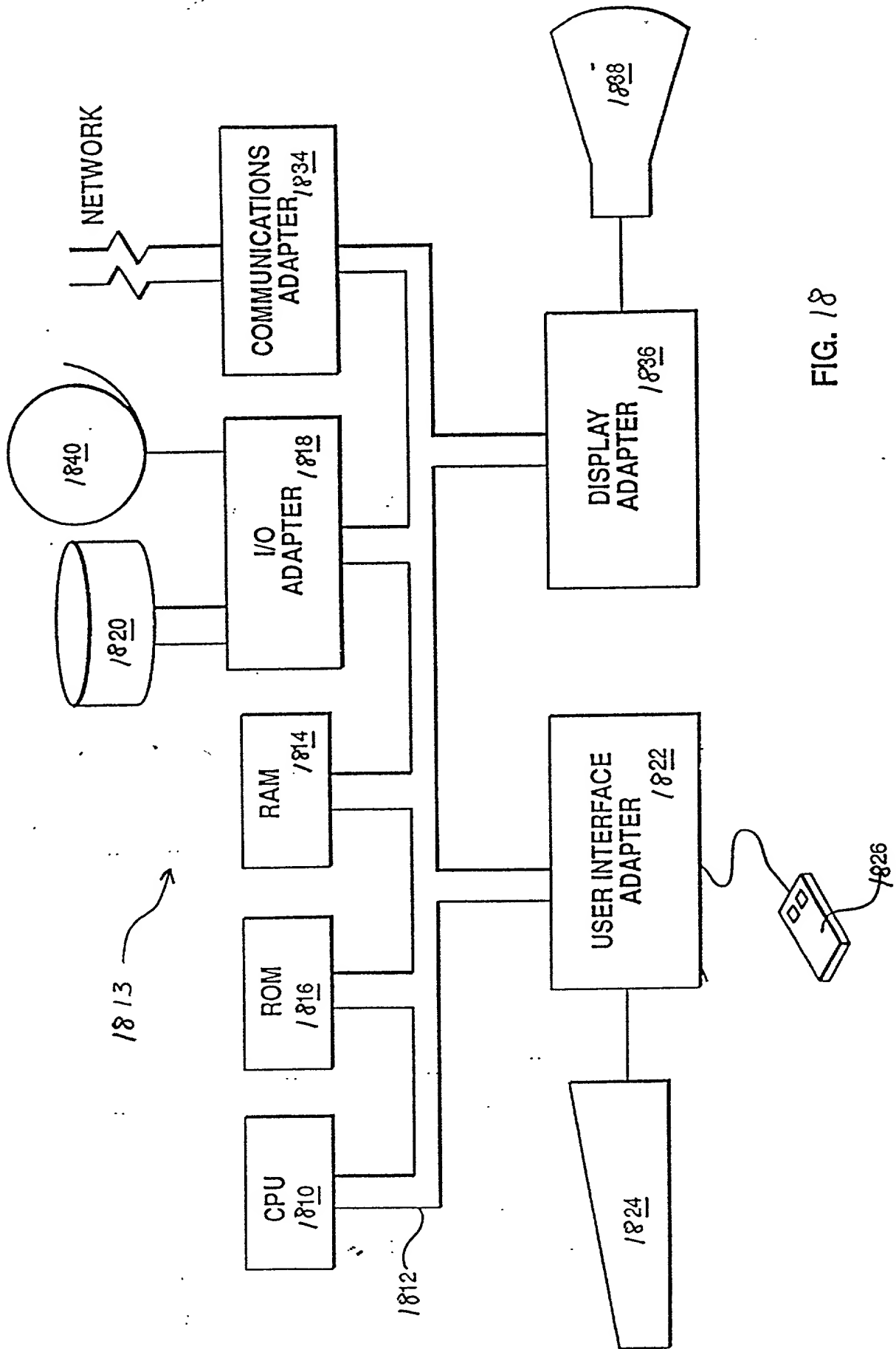


FIG. 18